

# ORD/Regional Collaborative Research on Urban Best Management Practices

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## NRMRL's UWMB Collaboration with Region 3

- **Regional Applied Research Effort - RARE**
  - Cooperative Agreement with ORD through Region 3 RARE grant
  - Demonstration of green roof concept as stormwater control
  - Design specifications and materials of green roofs
  - ORD approved QAPP of greenhouse and side-by-side field experiments
- **Regional Research Partnership**
  - Framework for Evaluating TMDL Restoration Effectiveness
  - Monitoring BMPs to evaluate effectiveness in improving in-stream water quality in an impaired urban watershed including outreach and education to Municipal Separate Storm Sewer System Operators (MS4s) and states about performance
  - Document effectiveness of BMPs of water quality improvements by:
    - Collecting and monitoring flow and pollutant loadings entering and leaving BMPs
    - Collecting and monitoring water quality data and biological conditions in receiving stream
  - Currently determining most appropriate site of three potential locations:
    - Lower Beaver Dam Creek, Prince George's County, MD
    - Wissahickon Creek, Philadelphia County, PA
    - Four Mile Run, Arlington County, VA

## Building Collaboration Between ORD and Regions

- **Benefits of ORD Regional Scientist:**
  - Increased regional awareness of UWMB capabilities
  - Facilitated UWMB collaboration with Region 3
- **Innovative programs foster cooperation opportunities:**
  - Regional Research Partnership
  - Regional Applied Research Effort
- **Other activities and potential future collaborations:**
  - Briefings to Region 3 on UWMB BMP research
  - Interest for more Regional Research Partnerships with Region 3 and other Regions
  - Activities with Region 2 – through ORD Regional Scientist:
    - » Participating in USDA Regional Water Quality Program Annual Conference
    - » Advising Region 2 Green Roof Project



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